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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/756,377	01/04/2001	Richard Hsiao	SJO9-2000-0093US1	6680	
7590 02/20/2004		i.	EXAMI	EXAMINER	
Marlin Knight			OMETZ, DAVID LOUIS		
Hoyt & Knight PO Box 1320			ART UNIT	PAPER NUMBER	
Pioneer, CA 95666			2653		
			DATE MAILED: 02/20/2004	,	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/756,377	HSIAO ET AL.				
Office Action Summary	Examiner	Art Unit				
	David L. Ometz	2653				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 27 (October 2003.					
2a) ☐ This action is FINAL . 2b) ☑ Thi	s action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 1-17 is/are pending in the application 4a) Of the above claim(s) is/are withdrasts. 5) Claim(s) 12-17 is/are allowed. 6) Claim(s) 1-3 and 8 is/are rejected. 7) Claim(s) 4-7 and 9-11 is/are objected to. 8) Claim(s) are subject to restriction and/seconds. 	awn from consideration.					
Application Papers						
9) ☐ The specification is objected to by the Examin 10) ☑ The drawing(s) filed on 04 January 2001 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the E	e: a) \square accepted or b) \square objected or by accepted or abeyance. See ction is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicati onty documents have been receive au (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s) 1) ☑ Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)				
 1) ∠ Notice of Neterences Ched (1 10-032) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 2. 	Paper No(s)/Mail Da					

Application/Control Number: 09/756,377

Art Unit: 2653

- 1. Applicant's election without traverse of species II, figures 5 and 6 in Paper No. 5 is acknowledged.
- 2. Claims 5, 9, 12 are objected to because of the following informalities: in claim 5, line 2, --the-- should be inserted before "magnetic"; in claim 9, last line, "sample" should be deleted; in claim 12, line 23, --the-- should be inserted before "second". Appropriate correction is required.
- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-3, 8 are rejected under 35 U.S.C. 102(b) as being anticipated by EP 457278.

As per claim 1, EP'278 shows in figure 2 a transducer for reading magnetic transitions from a moving magnetic material comprising: an air bearing surface (generally shown by 14) oriented in a first plane; a magnetic sensor 25; a magnetic shield 28 disposed along a second plane, the second plane being orthogonal to the first plane, the magnetic shield 28 having an area in the second plane; an electrically conductive shield 29 formed in a third plane which is parallel to the second plane, the electrically conductive shield 29 being electrically isolated from the first magnetic shield 28, the third plane being disposed so that the magnetic shield 28 is disposed between the electrically conductive shield 29 and the magnetic sensor 25; and a first contact pad 27A of conductive material in electrical contact with the electrically conductive shield.

As per claim 2, the transducer of claim 1 wherein the first contact pad 27A is disposed with a planar surface parallel to the third plane, the first contact pad 27A overlapping the electrically conductive shield 29, the transducer further comprising a via 33 electrically

Application/Control Number: 09/756,377

Art Unit: 2653

connecting the electrically conductive shield 29 to the first contact pad 27A in an overlapping area.

As per claim 3, the transducer of claim 1 further comprising a second contact pad 27B of conductive material electrically insulated from the electrically conductive shield 29 and in electrical contact with the magnetic sensor 25; and wherein the second contact pad 27B is disposed with a planar surface parallel to the third plane, the electrically conductive shield 29 extending to cover the first magnetic shield 28, the first contact pad 27A and the second contact pad 27B.

As per claim 8, EP'278 shows a transducer for reading magnetic transitions from a moving magnetic material comprising a plurality of layers disposed generally in parallel planes, the layers along a first cylindrical core orthogonal to the parallel planes comprising: a substrate 32; a first undercoat layer of electrically insulating material 244; an electrically conductive shield 29 which is electrically connected to a first lead pad 27A; a second undercoat layer 241 of electrically insulating material; and a magnetic shield 28, the electrically conductive shield 29 being electrically insulated from the magnetic shield 28 and overlapping the magnetic shield 28 in an area orthogonal to the air bearing surface.

- 5. Claims 4-7, 9-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. Claims 12-17 are allowed.

Art Unit: 2653

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The references cited all show shielded thin film magnetic heads.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David L. Ometz whose telephone number is (703) 308-1296. The examiner can normally be reached on M-W, 6:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Korzuch can be reached on (703) 305-6137. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David L. Ometz Primary Examiner
Art Unit 2653

DLO 2/18/04